25X1

25X1

1 July 1969

Copy _9_ of _10_

MEMORANDUM FOR: Chief, Technical Services and Support Group, NPIC

SUBJECT: Software Requirements for the ☐ Stereo Comparator   25X1

1. This memorandum is in response to your inquiry concerning the
status of operational computer programs to support the ☐ High Precision   25X1
Stereo Comparator (HPSC).

2. The software programming requirements for the HPSC are of two
basic types: (1) the control requirements for the internal operations
of the machine, i.e. stereo tracking, optical alignments and etc., and
(2) the coordinate data reduction to be performed externally by the
central computer'. At the present time it is estimated that HPSC will
be delivered to ☐ during April 1970, T&E commencing about July
1970, and turned over to IEG for operational testing about mid-September
1970. The current status and planning for both of the software functions
to meet the above estimated schedule is as follows:

    a. Internal Machine Requirements--The contract calls for all
necessary software for operation of panoramic, strip, and frame
photography to be delivered with the machine. Specifically the
pan program is being designed to handle the ☐   25X1
☐ At this time there are no known
difficulties that will delay the delivery of these programs beyond
the delivery date of the comparator although some debugging time may
be anticipated during the initial installation. For all future
camera systems ☐ IEG/PHD has accepted the respon-
sibility of doing the necessary programming, soliciting the assist-
ance of TSSG/APSD as appropriate. No provisions are being made to
handle the ☐ at this time. PHD is taking the necessary steps
to become proficient on the HPSC ☐ DDP-516 computer. At   25X1
this time no completion dates have been established ☐   25X1
☐

    b. External Data Reduction--The HPSC will use the same logic
for communicating with the central computer as the other on-line
comparators within the Center and will therefore be able to make
use of all existing operational programs. These are currently
limited to monoscopic determinations of size and position.   25X1

25X1

25X1

SUBJECT: Software Requirements for the ☐ Stereo Comparator   25X1

   4. In summary, there does not appear to be any technical reasons
for the software for the HPSC not being available ☐ when   25X1
the comparator is ready, and IEG/PHD feels there is not sufficient
requirements for stereo mensuration on ☐ to push completion of that   25X1
program. As previously stated, the programs for other systems will be
completed as per the attached tentative schedule.

                                                                         25X1

                    Projects & Programs Staff, TSSG, NPIC

Attachments:
    As stated

CONCUR: _____   _____
                    Chief,   Date
          Imagery Exploitation Group, NPIC

          _____   _____
                 Acting Chief,   Date   25X1
          Production Services Group, NPIC

25X1

SUBJECT: Software Requirements for the ☐ Stereo Comparator   25X1

Distribution:
    Copy 1 - Addressee
          2 - NPIC/IEC/Ch
          3 - NPIC/PSG/Ch
          4 - NPIC/TSSG/APSD/Ch
          5 - NPIC/TSSG/DFD/Ch
          6 - NPIC/TSSG/ARTS/Ch
          7 - NPIC/TSSG/ESD/Ch
          8 - NPIC/TSSG/SSD/Ch
   9 & 10 - NPIC/TSSG/PPS

25X1